

# Curtain Wall Insulation FireSpan®90 & FireSpan®40

- + Exceptional performance in Perimeter Fire Containment Systems
- + Provides life saving fire protection in rated assemblies
- + Fire resistant to temperatures above 2,000°F (1,093°C)
- + Conserves energy, reduces greenhouse gas emissions
- + High recycled content
- + Mold resistant
- + Controls noise and sound
- + Natural dark color provides shadowing in glass spandrels

LEED® v2009 Green Building Credits				
Minimum 70% Recycled Content <sup>1</sup>	Energy & Atmosphere	Materials & Resources	Indoor Environmental Quality	Innovation in Design
	1	2.1, 2.2 3.1, 3.2 4.1, 4.2 5.1, 5.2	9	1



Thermafiber insulation provides the critical components of the perimeter fire containment system in the Trump International Hotel and Tower in Chicago.



Firespan is designed for use with Thermafiber's patented, labor saving, Impasse® Curtain Wall Insulation System.



# Thermafiber® FireSpan® 90 & FireSpan® 40 Insulations

## Description:

THERMAFIBER® FireSpan® products are designed to provide life saving fire protection in curtain wall and perimeter fire containment systems. These products are noncombustible, moisture-resistant, noncorrosive, nondeteriorating, mildew-proof and vermin-proof. Its natural dark color provides shadowing in glass spandrels. FireSpan® 40 & 90 provide thermal insulation, fire protection, acoustical and vapor control in many different fire containment assemblies of 1, 2, and 3-hr ratings.

## Product Options:

- FireSpan® 40, 2" or greater thickness, is available with a vapor retarding foil facing.
- FireSpan® 90, 1" or greater thickness, is available with a vapor retarding foil facing.
- Recycled Content Options<sup>1</sup>:  
Standard Fiber (Complies with EPA Preference Program) ..... Minimum 75%

## Installation:

FireSpan® products should be mechanically attached to horizontal and vertical mullions with architect approved insulation fasteners. Reinforce FireSpan on the outer insulation surface at the safing line. Typical reinforcement members include hat channels, "L" angles, and "T" bars. Thermafiber's patented Impasse system is designed to quickly and easily mechanically attach FireSpan insulation to curtain wall systems.

## Standard Sizes:

	Thickness*	Widths**	Lengths**
FireSpan 40	2" - 7"	24", 36", 72"	48", 60", 72"
FireSpan 90	1" - 7"	24", 36", 72"	48", 60", 72"
Tolerances	+1/4", - 1/8"	± 1/8"	+ 3/4", - 1/4"

\*Thicknesses are available in 1/2" increments. \*\*Consult sales representative for custom size options.

## Technical Data:

Product Designation	Nominal Density	Tested to ASTM C 518		Tested to ASTM E 84			
		"k" @ 75° [24°C] BTU.in/hr.sq. ft. °F	"R" value per inch of thickness***	Unfaced		Foil Faced	
				Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
FireSpan 40	4.0 pcf	0.24	'R'= 4.2	0	0	25	0
FireSpan 90	8.0 pcf	0.24	'R'= 4.2	0	0	25	0

\*\*\*R = thickness divided by 'k'

## Fire-Containment Tests Per ASTM E 2307

FireSpan® insulation is the insulation for perimeter fire containment. Thermafiber has performed decades of testing in all of the containment systems listed below. For more complete test information, see SA707, THERMAFIBER Life-Safety Fire Containment Systems technical catalog or UL and Intertek (formerly OPL) Directories. For a full listing of containment systems visit [www.thermafiber.com](http://www.thermafiber.com) and click on Fire Rated Assemblies.

- Aluminum Spandrel Curtain Wall Fire Containment
- Steel Stud-Framed/Gypsum Sheathing Curtain Wall Fire Containment
- Glass Spandrel Curtain Wall Fire Containment
- Granite Spandrel Curtain Wall Fire Containment
- Precast Concrete Spandrel

## Standards Compliance:

FireSpan® 40 and 90 meet the following:

- ASTM C 665** Type I, III (Class A, Category 1)
- ASTM C 612** FireSpan 40 Type IA, IB, II, III, IVA
- ASTM C 612** FireSpan 90 Type IA, IB, II, III, IVA
- ASTM E 136** Rated Non-combustible per NFPA Standard 220
- ASTM E 96** Unfaced, 50 Perms as tested
- ASTM E 96** Foil Faced, 0.02 Perms as tested
- ASTM C 1104** Sorption less than 1% by volume
- ASTM C 356** Linear Shrinkage <2% @ 1200° F (650° C)
- ICC ES Report** ER-2331

Curtain wall products are approved by: **New York City Board of Standards & Appeals** – (under BSA 214-73-SM & accepted by MEA-209-82, Vol. II). Also, MEA-189-93-M and MEA-190-93-M.

Thermafiber® offers industry leading technical and engineering assistance to architects, specifiers, and contractors. These services include CAD drawings, engineering judgments, LEED® Credit Information, and product recommendations. Contact our technical services department at 1-888-834-2371, or email [technicalservice@owenscorning.com](mailto:technicalservice@owenscorning.com)

## For Further Information:

For additional information about these or other Thermafiber products contact us at 1-888-834-2371 or visit our website [www.thermafiber.com](http://www.thermafiber.com).

## Notice:

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## Submittal Approvals:

Job Name	
Contractor	Date

